

# Recovery Plan Action Status

Plan Name: Noonday Snail

Plan Status: Final

Plan Date: 07-Sep-84

Lead Agency: USFWS

Lead Office: Asheville Ecological Services Field Office

(258-3939)

| Species  | Action Priority # | Action # | Action Description   | Action Status      | Est. Initiation Date | Est. Completion Date | Responsible Parties  | Work Type          | Labor Type                | Action Comments  |
|--|-------------------|----------|--|--------------------|----------------------|----------------------|--|--------------------|---------------------------|--|
| Noonday snail<br>(Mesodon clarki<br>nantahala) | 1                 | 1.1.1    | Work with the U. S. Forest Service in protecting the snail's habitat, within the Nantahala Gorge, from disturbance | Partially Complete | Prior to FY 1995     |                      | U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, North Carolina Wildlife Resources Commission, USFWS Regional Office 4 - Atlanta, North Carolina Natural Heritage Program | Acquisition        | Internal Field Assistance | 1. See general categories for implementation schedules 2. Other agencies' responsibility would be of a cooperative nature or projects funded under a contract or grant program. In some cases contracts could be let to universities or private enterprises<br><br>This task is continuous and will be necessary, and cannot be completed, until species is recovered/delisted. Portion of gorge supporting the snail has been given a special designation which prohibits major timbering activities. |
| Noonday snail<br>(Mesodon clarki<br>nantahala) | 1                 | 1.1.2    | Continue to utilize existing legislation and regulations to protect the species and habitat                        | Ongoing Current    | Prior to FY 1995     |                      | U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, North Carolina Wildlife Resources Commission, USFWS Regional Office 4 - Atlanta, North Carolina Natural Heritage Program | Other: Regulations | Internal Field Assistance | This task is continuous and will be necessary and can not be completed until species is recovered/delisted   |

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| Noonday snail<br>(Mesodon clarki nantahala) | 3                 | 1.2.1    | Develop monitoring techniques     | Ongoing Current | Prior to FY 1995     |                      | U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, North Carolina Wildlife Resources Commission, USFWS Regional Office 4 - Atlanta, North Carolina Natural Heritage Program | Work type not yet selected                       | Internal Field Assistance, Internal Technical Assistance, Species Expert  |   |
| Noonday snail<br>(Mesodon clarki nantahala) | 3                 | 1.2.2    | Implement monitoring program      | Ongoing Current | Prior to FY 1995     |                      | U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, North Carolina Wildlife Resources Commission, USFWS Regional Office 4 - Atlanta, North Carolina Natural Heritage Program | Work type not yet selected                       | Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer | This task is carried out periodically as funding/resources permit -- several sites were surveyed/monitored in 2010.   |
| Noonday snail<br>(Mesodon clarki nantahala) | 3                 | 1.3      | Manage habitat if needed          | Ongoing Current | Prior to FY 1995     |                      | U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, USFWS Regional Office 4 - Atlanta  | Management: Habitat Maintenance and Manipulation | Internal Field Assistance   | Cost unknown. Management is currently primarily protection/preservation of the species habitat.   |
| Noonday snail<br>(Mesodon clarki nantahala) | 3                 | 1.3.1    | Evaluate necessity for management | Ongoing Current | Prior to FY 1995     |                      | U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, North Carolina Wildlife Resources Commission, USFWS Regional Office 4 - Atlanta, North Carolina Natural Heritage Program | Work type not yet selected                       | Contract, Internal Field Assistance, Internal Technical Assistance, Species Expert                              | disturbance/development within areas of the gorge under private ownership have contributed to the spread of exotic invasive species (e.g., kudzu, Japanese honeysuckle, etc.) and efforts to mgmt control their spread may become necessary in the near future. |

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| Noonday snail<br>(Mesodon clarki nantahala) | 3                 | 1.3.2     | Develop management techniques   | Ongoing Current    | Prior to FY 1995     |                      | U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, North Carolina Wildlife Resources Commission, USFWS Regional Office 4 - Atlanta, North Carolina Natural Heritage Program | Work type not yet selected  | Contract, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer | Costs unknown  |
| Noonday snail<br>(Mesodon clarki nantahala) | 2                 | 1.4.1     | Evaluate overuse of area (especially at Blowing Springs); develop necessary controls                | Ongoing Current    | FY 2000 - FY 2004    |                      | U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, North Carolina Wildlife Resources Commission, USFWS Regional Office 4 - Atlanta, North Carolina Natural Heritage Program | Work type not yet selected  | Labor type not yet selected   | This task is continuous and will be necessary and cannot be completed until species is recovered/delisted  |
| Noonday snail<br>(Mesodon clarki nantahala) | 2                 | 1.4.2     | Assess other threats  | Ongoing Current    | Prior to FY 1995     |                      | U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, North Carolina Wildlife Resources Commission, USFWS Regional Office 4 - Atlanta, North Carolina Natural Heritage Program | Work type not yet selected  | Labor type not yet selected   | Severe drought conditions 2006-2008 appeared to significantly affect the species habitat at many areas within the gorge -- efforts are underway to assess the effects this had on the species numbers and distribution.          |
| Noonday snail<br>(Mesodon clarki nantahala) | 3                 | 2.1 & 2.2 | Investigate results of taxonomic studies and evaluate impact of findings on current status of taxon | Partially Complete | Prior to FY 1995     | Prior to FY 1995     | U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, North Carolina Wildlife Resources Commission, USFWS Regional Office 4 - Atlanta, North Carolina Natural Heritage Program | Research: Taxonomic Studies | Species Expert  | Morphological study of M. clarki nantahala and M. clarki clarki was conducted -- no taxonomic changes were made or recommended. However some researchers believe that two are the same and genetic studies should be considered. |

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| Noonday snail<br>(Mesodon clarki nantahala) | 3                 | 3.1      | Investigate existence of additional material              | Complete           | Prior to FY 1995     | Prior to FY 1995     | U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, North Carolina Wildlife Resources Commission, USFWS Regional Office 4 - Atlanta, North Carolina Natural Heritage Program | Research: Demographic Studies | Species Expert              | No additional material was uncovered  |
| Noonday snail<br>(Mesodon clarki nantahala) | 3                 | 3.2      | Determine potential habitat sites outside Nantahala Gorge | Partially Complete | FY 1995 - FY 1999    |                      | U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, North Carolina Wildlife Resources Commission, USFWS Regional Office 4 - Atlanta, North Carolina Natural Heritage Program | Research: Population Surveys  | Internal Field Assistance   | potential habitat outside of the gorge was surveyed for the species in 1987, 1995, and most recently in 1999 -- no new populations were found |
| Noonday snail<br>(Mesodon clarki nantahala) | 3                 | 3.3      | Survey potential habitat                                  | Partially Complete | FY 1995 - FY 1999    |                      | U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, North Carolina Wildlife Resources Commission, USFWS Regional Office 4 - Atlanta, North Carolina Natural Heritage Program | Research: Population Surveys  | Internal Field Assistance   | potential habitat outside of the gorge was surveyed for the species in 1987, 1995, and most recently in 1999 -- no new populations were found |
| Noonday snail<br>(Mesodon clarki nantahala) | 3                 | 3.4      | Evaluate any new populations                              | Obsolete           |                      |                      | U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, North Carolina Wildlife Resources Commission, USFWS Regional Office 4 - Atlanta, North Carolina Natural Heritage Program | Work type not yet selected    | Labor type not yet selected | potential habitat outside of the gorge was surveyed for the species in 1987, 1995, and most recently in 1999 -- no new populations were found |

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| Noonday snail<br>( <i>Mesodon clarki</i><br><i>nantahala</i> ) | 3                 | 4        | Reevaluate recovery objectives if the noonday snail and habitat are stable or if new populations are found | Ongoing Current | FY 2007              |                      | U.S. Fish and Wildlife Service, Endangered Species Division, U.S. Forest Service, North Carolina Wildlife Resources Commission, USFWS Regional Office 4 - Atlanta, North Carolina Natural Heritage Program | Management: General | Internal Administrative | recovery goals and objectives are reevaluated as warranted as new information generated/becomes available or conditions change. This task won't be completed until species is recovered |